

Figure 9 depicts a recipe validity rules selection window, according to an embodiment of the present invention.

5 Figure 10 depicts a recipe validity rules maintenance window, according to an embodiment of the present invention.

Figure 11 illustrates a recipe type maintenance window, according to an embodiment of the present invention.

10 Figure 12 depicts a recipe type dependencies maintenance window, according to an embodiment of the present invention.

Figure 13 shows a system overview of a structure of a recipe, according to an embodiment of the present invention.

15 Figure 14 illustrates circuitry of a computer system, which may form a platform for the implementation of embodiments of the present invention.

20 Figure 15 illustrates a formula summary window, according to an embodiment of the present invention.

Figure 16 shows a formula detail window, according to an embodiment of the present invention.

25 Figure 17 shows a routing summary window, according to an embodiment of the present invention.

DETAILED DESCRIPTION OF THE INVENTION

In the following detailed description of the present invention, graphical user interface facilitating navigation, viewing and maintenance of recipes, numerous specific details are set forth in order to provide a thorough understanding of the present invention. However, it will be recognized by one skilled in the art that the present invention may be practiced without these specific details or with equivalents thereof. In other instances, well-known methods, procedures, components, and circuits have not been described in detail as not to unnecessarily obscure aspects of the present invention.

NOTATION AND NOMENCLATURE

Some portions of the detailed descriptions which follow (e.g., process 400) are presented in terms of procedures, steps, logic blocks, processing, and other symbolic representations of operations on data bits that can be performed on computer memory. These descriptions and representations are the means used by those skilled in the data processing arts to most effectively convey the substance of their work to others skilled in the art. A procedure, computer executed step, logic block, process, etc., is here, and generally, conceived to be a self-consistent sequence of steps or instructions leading to a desired result. The steps are those requiring physical manipulations of physical quantities. Usually, though not necessarily, these quantities take the window of electrical or magnetic signals capable of being stored, transferred, combined, compared, and otherwise manipulated in a computer system. It has proven convenient at times, principally for reasons of common usage, to refer to these signals as bits, values, elements, symbols, characters, terms, numbers, or the like.

It should be borne in mind, however, that all of these and similar terms are to be associated with the appropriate physical quantities and are merely convenient labels applied to these quantities. Unless specifically stated otherwise as apparent from the following discussions, it is appreciated that throughout the present invention, discussions utilizing terms such as "indexing" or "processing" or "computing" or "translating" or "calculating" or "determining" or "scrolling" or "displaying" or "recognizing" or "generating" or "selecting" or "displaying" or the like, refer to the action and processes of a computer system, or similar electronic computing device, that manipulates and transforms data represented as physical (electronic) quantities within the computer system's registers and memories into other data similarly represented as physical quantities within the computer system memories or registers or other such information storage, transmission or display devices.

GRAPHICAL USER INTERFACE FOR NAVIGATION, VIEWING AND MAINTENANCE OF RECIPES

Embodiments of the present invention are described in the context of Enterprise Resource Planning (ERP) systems. However, it is appreciated that the present invention may be utilized in other types of manufacturing systems where it may be necessary or convenient for a user to navigate, view and maintain recipes.

The Instrument Society of America (ISA) standard ISA-S88 describes recipe as: "an entity that contains the minimum set of information that uniquely defines the manufacturing requirements for a specific product." Recipes provide a way to describe products and how products are produced. Herein, recipes include data regarding ingredients, e.g., "formulas," and also include data regarding operations to be performed, e.g., "routings."